

# DESIGN CRITERIA for the City of Louisville Based on 2009 Codes

Snow Load:	30 lbs/sf ground snow load 30 lbs/sf live roof load
Wind speed:	115 mph for 3 second gust 100 mph fastest mile <i>D3161 test with Class F Application</i>
Wind Exposure:	Consider "C" until proven otherwise "C" greater restrictions, more exposure Open areas like CTC and hotels on Hwy 36 "B" normal – most other areas
Seismic Zone :	B
Frost line depth:	30" to bottom of footing
Weathering:	Severe – Climate Zone 5B
Termite:	slight to moderate
Decay:	none to slight
Winter Design Temp:	1 degree
Ice shield under-layment:	Not Required if avg temp above 25 <i>(Average temp in Denver in January is 26)</i>
Ice and Snow Shield NOT required on pitch greater than 4/12	<i>See roof handout.</i>
Air Freezing Index:	<1000
Mean annual temp:	50 degrees
Elevation:	5,530 feet above sea level.
Current code:	<b>2009 ICC Codes</b> Adopted January 12, 2010 <b>2009 IBC, IRC, IFC, IPC, IFGC, IMC, IECC, EBC, and NEC 2008</b> <i>2003 Adopted November 11, 2003 97 UBC adopted 1998 94 UBC adopted in Dec 1995</i>
Res. Insulation:	Walls R-19 Ceilings R-38 Basements R-10 <i>continuous</i> Basements: R-13 <i>Wood Stud Cavity</i> Crawl Space: R-10 <i>continuous</i> R-13 <i>in cavity</i> Floor: <i>fill to top of cavity</i> Min R-19 (2x6) R-25 (2x8) Max R-30 (2x10)
U- value :	.35 glazing in windows and doors (.6 for skylights)
Accepted min soil bearing capacity:	1200 psf

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